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AUGUST 1954

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The RAND Corporation

1700 MAIN ST. • SANTA MONICA • CALIFORNIA

20 August 1957

L-14834

Dr. C. L. Cowan
Rad-Chem Department
Los Alamos Scientific Laboratory
Los Alamos, New Mexico

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW-DATE:	DETERMINATION (CIRCLE NUMBER)
AUTHORITY: <input type="checkbox"/> DC <input type="checkbox"/> DD	1. CLASSIFICATION RETAINED
NAME:	2. CLASSIFICATION CHANGED TO
2ND REVIEW-DATE:	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <input type="checkbox"/> DC <input type="checkbox"/> DD	4. COORDINATE WITH
NAME:	5. CLASSIFICATION CANCELED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY)

Dear Dr. Cowan:

In discussing neutron economics of TN weapons, Carson Mark suggested that I trace the neutron production, capture, and escape in the Mike device. Mike fuel is simpler to calculate than fuels containing Li^6 and may throw some light on salting capabilities.

To balance the neutron economy, I would appreciate your sending me the following information from Mike:

N_p^{239}/fis

U^{240}/fis

U^{237}/fis

$Fe(r,\gamma)/fis$

plus number of neutrons hitting case or escaping

Thanks very much.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW-DATE: <u>AUG 20 1957</u>	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <input checked="" type="checkbox"/> DC <input type="checkbox"/> DD	1. CLASSIFICATION RETAINED
NAME: <u>W. B. ...</u>	2. CLASSIFICATION CHANGED TO
2ND REVIEW-DATE: <u>8/30/02</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <input type="checkbox"/> DC <input type="checkbox"/> DD	4. COORDINATE WITH
NAME: <u>H. Schmidt</u>	5. CLASSIFICATION CANCELED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY)

Sincerely yours,

Benson L. Tucker

Benson L. Tucker
Geophysics
Engineering Division

BLT:cnc

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